DOCUMENT RESUME

ED 026 061 JC 690 006

By-Dennison, John D.; Jones, Gordon

A Study of the Characteristics and Subsequent Performance of Vancouver City College Students who Transferred to the University of British Columbia in September, 1967.

Pub Date 17 Dec 68
Note-84p.
EDRS Price MF-$0.50 HC-$4.30
Descriptors-*Foreign Countries, *Junior Colleges, *Student Characteristics, *Transfer Students
Identifiers-*Canada

Transfer students were classified according to personal characteristics of age, sex, and department entered, and according to junior college educational characteristics of GPA, number of semesters attended, full- or part-time attendance, achievement in certain subjects, and comparison between college grading and university status. Relationships between the characteristics are shown in tables. Among the observations: transfers were mainly interested in the humanities, two-thirds transferred in their second year, they were full-time students for two semesters and in that time completed ten college-level courses, of 14 departments available most chose from eight, most did not drop their GPA at the university, the number of A and B grades increased although they had fewer such grades than the native students, there were fewer failures than at college, those who failed had had a low GAP in college, many improved their grades in their second year at the university, they had an attrition rate of one-third at the end of one year. Tentative conclusions included: college GPA was fairly indicative of university performance, prognosis of success varied by department, more than 40% of the transfers completed their first university year, the college has value in helping students, perhaps otherwise ineligible, to satisfy requirements for university entrance. (HH)

ED 026061

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

A STUDY OF THE CHARACTERISTICS AND SUBSEQUENT PERFORMANCE OF VANCOUVER CITY COLLEGE STUDENTS WHO TRANSFERRED TO THE UNIVERSITY OF BRITISH COLUMBIA IN SEPTEMBER, 1967

by

John D. Dennison

Faculty of Education

University of British Columbia

and

Gordon Jones

Faculty

Vancouver City College

JC 690 006

December 17, 1968

Introduction

The study reported on the following pages is a continuation of an investigation of the characteristics and subsequent performance of Vancouver City College students who have transferred to the University of British Columbia. It is a more intensive analysis of the transfer student and his achievements at U.B.C. than was contained in the first report. A brief comparison of the performance of V.C.C. students and "regular" university students is offered. Certain statistical procedures used in the first report have been altered and refined in the hope of giving a more meaningful interpretation to the problem of articulation between V.C.C. and U.B.C.

Since it is becoming apparent that the two-year college is absorbing an increasing percentage of post-secondary students, it is the authors' hope that the implications contained in this report will be relevant to the whole program of two-year college within the Province of British Columbia.

CONTENTS

		Page
Introduction		ii
List of Tables		iv
Part A.	Background.	1
Part B.	Characteristics of Vancouver City College Students Transferring to the University of British Columbia in September 1967.	4
Part C.	Subsequent Performance of Vancouver City College Students who Transferred to the University of British Columbia in September 1966.	47
Part D.	Summary of Vancouver City College Students Transferring to the University of British Columbia.	57
Part E.	Performance of Transfer Students from Vancouver City College to the University of British Columbia in the 1967-1968 Academic Year.	61
	Conclusions	72
Final Comments		76

LIST OF TABLES

Table		Page
1	Vancouver City College students entering the University of British Columbia, September 1967, by faculty and sex.	6
2	Vancouver City College students entering the University of British Columbia, September 1967, by faculty and year.	7
3	Vancouver City College students entering the University of British Columbia, September 1967, according to the university year entered.	9
4	Vancouver City College students entering the University of British Columbia, September 1967, by age group.	11
5	Vancouver City College students entering the Faculty of Education at the University of British Columbia, September 1967, by age group.	11
6	Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties according to the number of semesters taken while in attendance at Vancouver City College.	13
7	Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by full or part-time classification and mean over-all grade point average while in attendance at Vancouver City College.	15
8	Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by over-all grade point average grouping while in attendance at Vancouver City College.	19
9	Numbers of Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, receiving "fail", "incomplete", or "passed" grades in a course while at Vancouver City College.	20
10	Vancouver City College grades obtained prior to transfer, by transfer students in sixteen selected college courses.	22
11	Comparison of year end status of Vancouver City College transfer students at the end of their first year in attendance at the University of British Columbia with the regular U.B.C. populace for eight selected faculties, April 1968.	25

12 Status of Vancouver City College transfer students after completion of one year at the University of British Columbia according to G.P.A. while at V.C.C. and compared with the status of regular UBC students. 30

13 Status of Vancouver City College students with a G.P.A. under 2.0 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia. 31

14 Status of Vancouver City College students with a G.P.A. of 2.00 to 2.49 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia. 32

15 Status of Vancouver City College students with a G.P.A. of 2.50 to 2.99 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia. 34

16 Status of Vancouver City College students with a G.P.A. of 3.00 to 4.00 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia. 35

17 Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties by final standing (using percentage averages) at Vancouver City College and at the University of British Columbia. 36

18 Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by final standing (using percentage averages) at Vancouver City College and at the University of British Columbia for students who did not earn a P, F or I grade for any subject while at V.C.C. 38

19 Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by final standing (according to percentage average) at Vancouver City College and at the University of British Columbia for students with either a P, F or I grade for at least one subject while at V.C.C. 39

20 Vancouver City College students entering the University of British Columbia, September 1967, in four selected faculties, by college age or mature classification, and final standing (according to percentage average) at Vancouver City College and at the University of B.C. 42

21 Vancouver City College students entering the University of British Columbia, September 1967, in four selected faculties, by full or part-time classification, and final standing (according to percentage average) at Vancouver City College and at the University of B.C. 45

22 Status of Vancouver City College students who entered the University of British Columbia, September 1967, according to full or part-time classification, at the end of the first year in attendance at the University of British Columbia. 46

23 Faculty and year placement of Vancouver City College students who transferred to the University of British Columbia, September 1966, given at the start of their second year in the University of British Columbia. 49

24 Relative placement of Vancouver City College students who transferred to the University of British Columbia, September 1966, at the end of their second year in attendance at the University of British Columbia according to percentage average obtained. 51

25 Status of Vancouver City College students who entered the University of British Columbia, September 1966, at the end of their second year in attendance at the University of British Columbia. 53

26 Status at the end of the first year for Vancouver City College transfer students, in six selected faculties, who did not re-enroll for a second year at the University of British Columbia. 54

27 Grade Point Average when at Vancouver City College for those students transferring in September 1966, in six selected faculties, who did not re-enroll for a second year at the University of British Columbia in September 1967. 56

28	Performance of V.C.C. transfers in various Faculties at the University of British Columbia.	63
29	U.B.C. grades obtained by V.C.C. transfer students in certain selected university courses.	66
30	Probability of Earning an U.B.C. Average of at Least*	71
31	A comparison of percentage grade distribution in certain selected courses obtained by V.C.C. transfer students and "regular" students.	73

PART A

Background

The first study[1] concerned itself with a total of 176 students from V.C.C. who enrolled at U.B.C. in September 1966. General characteristics of these students as to sex, age, faculty entered, grade point average, number of semesters attended at V.C.C. and full-time or part-time status were explored. Since the numbers of transfer students in many faculties were extremely small, six faculties in which the numbers were large enough to make some worthwhile interpretations were selected for a concentrated review. These faculties were:

Arts, second year.....49 students,

Education, second year (elementary).....35 students,

Science, second year.....25 students,

Commerce, first year.....18 students,

Education, second year (secondary).....10 students,

and Applied Science, first year..... 9 students.

This total of 146 students represented approximately eighty-three percent of the total number of V.C.C. transfers to U.B.C. in September, 1966.

Selected Conclusions From The First Study

In making any definitive conclusions as the result of the first study, it must be remembered that the subjects composed the first

---

[1]Dennison and Jones, A Study Of The Characteristics and Subsecuent Performance of Vancouver City College Students Who Transferred To The University of British Columbia in September, 1966, February 1968.

group of V.C.C. transfer students to move on to the University of British Columbia since Vancouver City College was opened. Any conclusions, therefore, must be considered as tentative and would require future ratification with studies conducted upon subsequent transfer students.

With this restriction in mind the following selected conclusions are presented:

1. The largest proportion of transfer students (70.4 percent) took a first year college level program while at V.C.C. transferring into U.B.C. at the second year level.
2. The Arts faculty and the Faculty of Education each received one-third of the transfer students.
3. Nearly 86 percent of transfer students were under twenty-five years of age. The remaining 14 percent would be in the category of "mature student".
4. Three-quarters of the students attended V.C.C. for two semesters. The majority (84 percent) of the remaining students who attended for a third semester did so to make up deficiencies caused by previous failures, withdrawals, or incompleted courses.

5. Slightly over three quarters of the transfer students were admitted to U.B.C. in September of 1966 with an overall grade point average of 2.0 (C) or over.

6. Grade Point Averages at V.C.C. were found to be somewhat indicative of future performance at U.B.C. Of the fifty students in the sample who successfully completed the year at U.B.C., eight had G.P.A.'s less than 2.0.

7. More than one third of the V.C.C. transfers in the sample were able to fully satisfy the requirements for their first year at University.

8. The mean S.C.A.T. scores, both Verbal and Numerical found in the sample were comparable with the scores made by regular U.B.C. students. This comparison indicates that, at least on this basis, the quality of transfer students is not greatly different from the regular student.

PART B

Characteristics of Vancouver City College Students Transferring to the University of British Columbia in September 1967.

In September 1967, a total of 376 students from Vancouver City College enrolled at the University of British Columbia.

The characteristics of these transfer students were classified according to personal, that is, sex, age, and faculty entered; and to educational, that is grade point average earned while in attendance at V.C.C., number of semesters attended, whether full-time or part-time student, achievement within certain selected subjects at V.C.C. and comparative over-all achievement between V.C.C. final grading and U.B.C. status.

All information for the student while in attendance at V.C.C. was obtained from the student's official record card at V.C.C. Information on the student while in attendance at U.B.C. was supplied from the university Registrar's Office.

From the point of view of transfer students to U.B.C., V.C.C. is predominately a "humanities college" with nearly two-thirds (65.8 percent) of the students entering the faculties of Arts or Education. The largest single group of transfer students enrolled in the Faculty of Arts. One hundred thirty-six students (36.3 percent) of the transfer group entered this faculty. Nineteen students enrolled

in first year, 97 in second year and 20 in third year.

The second largest group of students, 29.5 percent of the total, entered the Faculty of Education. Of this group of 111 students, forty-eight (12.8 percent) entered the transfer program in this faculty, thirty-two (8.5 percent) the Elementary-A1 program, twenty-seven (7.2 percent) the Secondary program, with two students entering each the Elementary-A2 and Industrial program. The Faculty of Science received the third largest number of students, 55 (14.5 percent). Commerce received 9.3 percent, Applied Science 5.3 percent, and the remaining faculties of Agriculture, Home Economics, Physical Education, Music and Forestry 1.6 percent or less for each.

A summary of these findings is presented in Table 1 and Table 2.

Sex

Men out-numbered women in the transfer group nearly two to one. This ratio varied with the faculty entered from 31 women to each man in the Faculty of Education (Elementary-A1) to an exclusive male transfer group in Forestry and Education (Industrial). It should be noted that the previous all male transfer faculties of Applied Science and Commerce lost this distinction with the 1967 sample. As might be expected differences in sex ratio reflect differences in program. In the faculties where women are predominant, that is, transfer program and elementary programs in Education, the ratio of women to men was 4.1 to 1. Overall, 57.8 percent of the women students entered the Faculty of Education while 14.9 percent of the men entered this faculty. With the exception of the Faculty of Arts

TABLE 1

Vancouver City College students entering the University of British Columbia, September 1967, by faculty and sex.

Faculty	Male		Female		Total	
	No.	%	No.	%	No.	%
Arts	102	41.2	34	26.6	136	36.3
Commerce	31	12.5	4	3.1	35	9.3
Agriculture	2	.8	1	.8	3	.8
Home Economics	-	-	3	2.3	3	.8
Physical Education	5	2.0	1	.8	6	1.6
Music	-	-	2	1.5	2	.5
Applied Science	20	8.0	1	.8	21	5.6
Science	47	19.0	8	6.3	55	14.5
Forestry	4	1.6	-	-	4	1.1
Education (Elem - A2)	-	-	2	1.5	2	.5
Education (Transfer)	13	5.2	35	27.4	48	12.8
Education (Elem - A1)	1	.4	31	24.2	32	8.5
Education (Industrial)	2	.8	-	-	2	.5
Education (Secondary)	21	8.5	6	4.7	27	7.2
Total	248	100.0	128	100.0	376	100.0

TABLE 2

Vancouver City College students entering the University of British Columbia, September 1967, by faculty and year.

Faculty	Year	Male		Female		Total	
		No.	%	No.	%	No.	%
Arts	1	13	5.3	6	4.7	19	5.0
	2	73	29.5	24	18.7	97	25.8
	3	16	6.5	4	3.1	20	5.3
Commerce	1	29	11.7	4	3.1	33	8.7
	2	2	.8	-	-	2	.5
Agriculture	1	-	-	1	.8	1	.3
	2	2	.8	-	-	2	.5
Home Economics	2	-	-	3	2.3	3	.8
Physical Ed	1	3	1.2	-	-	3	.8
	2	2	.8	1	.8	3	.8
Music	1	-	-	1	.8	1	.3
	2	-	-	1	.8	1	.3
Applied Science	1	20	8.1	1	.8	21	5.6
Science	1	4	1.6	2	1.6	6	1.6
	2	40	16.0	6	4.7	46	12.2
	3	3	1.2	-	-	3	.8
Forestry	1	4	1.6	-	-	4	1.1
Education (Elem - A2)	1	-	-	1	.8	1	.3
	2	-	-	1	.8	1	.3
Education (Transfer)	2	12	4.8	32	25.0	44	11.7
	3	1	.4	3	2.3	4	1.1
Education (Elem - A1)	1	-	-	12	9.4	12	3.2
	2	1	.4	19	14.8	20	5.3
Education (Industrial)	2	2	.8	-	-	2	.5
Education (Second)	2	19	7.7	6	4.7	25	6.6
	3	1	.4	-	-	1	.3
	4	1	.4	-	-	1	.3
Total		248	100.0	128	100.0	376	100.0

where the highest percentage of male students was to be found (41.2 percent), the men tended to choose faculties for majors in sciences and commerce. Nearly thirty percent of male students selected the Science, Applied Science, Forestry and Agriculture Faculties. The ratio of men to women in these four faculties was 7.3 to 1. Thirty-one (12.5 percent) of the men students selected Commerce while only 4 women (3.1 percent) entered this faculty.

The largest single group of V.C.C. students (25.8 percent) transferred to second year . Forty-six (12.2 percent) men and women entered second year Science, 11.7 percent second year Education on the transfer program and 8.7 percent first year Commerce. Second year programs in education attracted the largest group of women transfer students (45.3 percent), while the largest percentage of men students, 29.5 percent, entered second year Arts. The next largest percentage of male students (16.0 percent) were attracted to the second year of the Science Faculty.

Two hundred forty-six students, that is 65.3 percent of the transfer group, entered U.B.C. at the second year level. Slightly over one quarter (26.9 percent) entered at the first year level, while 7.5 percent entered U.B.C. at the third year level. The percentage of students, therefore, completing the first two years equivalent of university education at V.C.C. has increased from the first report of 1966 transfer students (2.8 percent). The proportion of women entering second year is somewhat higher than men, 72.6 percent to 61.7 percent. The percentage of men entering first and third year is slightly higher than that of women.

The year level of V.C.C. transfer students entering U.B.C. is summarized in Table 3.

TABLE 3

Vancouver City College students entering the University of British Columbia, September 1967, according to the university year entered.

Year	Male		Female		Total	
	No.	%	No.	%	No.	%
First	73	29.4	28	21.9	101	26.9
Second	153	61.7	93	72.6	246	65.3
Third	21	8.5	7	5.5	28	7.5
Fourth	1	.4	-	-	1	.3
Total	248	100.0	128	100.0	376	100.0

Age

One hundred eighty (47.9 percent) of the transfer student group were in the twenty to twenty-four age group. The eighteen and nineteen year age group accounted for the second largest section of transfer students, that is, 29.8 percent. Sixty-one students (16.2 percent) were twenty-five years or over, that is, the age range often considered as the "mature student".

A greater percentage of women transfer students entered U.B.C. at a younger age than men, 44.5 percent of the women were under age twenty as compared with 23.0 percent of the men. The percentage of mature men and mature women, that is, age twenty-five and over,

was virtually the same (men 16.1 percent and women 16.4 percent). There were no V.C.C. students entering U.B.C. in September 1967, with a recorded age over forty-four years.

The age groupings of V.C.C. students at the time of transfer to U.B.C. are indicated in Table 4.

The age groupings of V.C.C. transfer students entering the various Faculties of Education are shown in Table 5. It is sometimes suggested that the Faculty of Education tends to attract an "older" or "mature" type of student. 71.2 percent of education students were twenty-four years or under upon enrollment at U.B.C., with 21.6 percent "mature students", that is, twenty-five years of age or over. This is somewhat higher than the 16.2 percent of "mature students" found in the over-all transfer sample. A larger percentage of male "mature students" (32.5 percent) entered the Faculties of Education than did women (16.2 percent).

Educational

In the analysis of the various educational aspects of the transfer students, eight faculties representing 306 of the 376 transfer students were selected. These eight faculties were selected since it was felt that the numbers in each were large enough to make some meaningful interpretations. These faculties, representing 81.4 percent of the transfer students were: second year Arts (97 students), third year Arts (20 students), first year Commerce (33 students), first year Applied Science (21 students), second year Science (46 students), second year Education-transfer program (44 students), second year Education-

TABLE 4

Vancouver City College students entering the University of British Columbia, September 1967, by age group.

Age group in Years	Male		Female		Total	
	No.	%	No.	%	No.	%
17	-	-	2	1.5	2	.5
18 - 19	57	23.0	55	43.0	112	29.8
20 - 24	137	55.3	43	33.6	180	47.9
25 - 34	36	14.5	18	14.1	54	14.3
35 - 44	4	1.6	3	2.3	7	1.9
over 44	-	-	-	-	-	-
not given	14	5.6	7	5.5	21	5.6
Total	248	100.0	128	100.0	376	100.0

TABLE 5

Vancouver City College students entering the Faculty of Education at the University of British Columbia, September 1967, by age group.

Age group in Years	Male		Female		Total	
	No.	%	No.	%	No.	%
17	-	-	-	-	-	-
18 - 19	7	18.9	25	33.8	32	28.8
20 - 24	16	43.2	31	41.9	47	42.4
25 - 34	11	29.8	11	14.8	22	19.8
35 - 44	1	2.7	1	1.4	2	1.8
over 44	-	-	-	-	-	-
not given	2	5.4	6	8.1	8	7.2
Total	37	100.0	74	100.0	111	100.0

elementary (A1) program (20 students) and second year Education-secondary program (25 students). Of the 306 students, only seven (2.3 percent) took just one semester at V.C.C. prior to enrolling at U.B.C. One hundred fifty-eight students or slightly over one half of those enrolling in the above eight faculties earned their credits at V.C.C. by attending two semesters. Of the remaining students, forty-seven (15.4 percent) attended V.C.C. for three semesters, sixty-five (21.2 percent) for four semesters, twenty-one (6.9 percent) for five semesters and eight (2.6 percent) for six semesters.

The number of semesters attended while at V.C.C. is summarized on a faculty basis in Table 6.

Full-time and Part-time Category

The majority of students entering the eight identified faculties studied at V.C.C. as full-time students. A "full-time" student is one who has enrolled in a minimum of ten college courses during a three semester period. For example, a student who has taken three courses in each of two semesters and four courses in the third semester, for a total of ten courses, is classed as a full-time student. On the other hand, a student who has taken three courses in each of three semesters, for a total of nine courses, would be listed as a part-time student. A student who took two courses in each of two semesters and five courses in each of two more semesters would be classed as a full-time student on the basis of the two, five course semesters (total of ten courses), and not on the basis of the two semesters of two courses and one semester of five courses (total of nine courses).

TABLE 6

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties according to the number of semesters taken while in attendance at Vancouver City College.

Faculty and year	1 sem			2 sem			3 sem			4 sem			5 sem			6 sem			
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	Total
Arts																			
Second Year	2	-	2	36	19	55	7	3	10	20	1	21	6	1	7	2	-	2	97
Third Year	-	-	-	3	1	4	1	-	1	9	3	12	2	-	2	1	-	1	20
Commerce																			
First Year	1	-	1	10	2	12	7	2	9	9	-	9	1	-	1	1	-	1	33
Applied Science																			
First Year	1	-	1	7	1	8	3	-	3	6	-	6	3	-	3	-	-	-	21
Science																			
Second Year	1	-	1	25	3	28	5	1	6	6	1	7	2	1	3	1	-	1	46
Education (Transfer)																			
Second Year	-	1	1	7	18	25	2	6	8	2	2	4	1	3	4	-	2	2	44
Education (Elem) A1																			
Second Year	-	-	-	1	10	11	-	5	5	-	2	2	-	1	1	-	1	1	20
Education (Sec)																			
Second Year	1	-	1	12	3	15	4	1	5	2	2	4	-	-	-	-	-	-	25
Total	6	1	7	101	57	158	29	18	47	54	11	65	15	6	21	5	3	8	306

The part-time students were outnumbered 6.65 to one. Transfer students classified as part-time entered all eight of the faculties under study. The largest percentage (20.0 percent) of V.C.C. part-time transfer students enrolled in second year Arts. Seventeen and one half percent of the part-time transfer students entered second year Science and a similar percentage enrolled in second year Education (transfer program). The smallest percentage of part-time students (5 percent) enrolled in the third year of the Faculty of Arts.

In all faculties studied there was a higher incidence of transfer students who studied as full-time students at V.C.C. than as part-time. The percentage of full-time V.C.C. transfer students per faculty entered ranged from a low of 76.2 percent for second year Applied Science to a high of 91.8 percent in second year Faculty of Arts. Eighteen students (90.0 percent) who entered third year Arts studied at V.C.C. on a full-time program, while the remaining five faculties had full-time students accounting for: 87.9 percent, Faculty of Commerce; 85.0 percent, Education-elementary A2; 84.8 percent, Science; 84.1 percent, Education-transfer; 84.0 Education-secondary.

The largest percentage of part-time students from V.C.C. were found entering first year Applied Science. Five of the twenty-one students or 23.8 percent entered this faculty after studying at V.C.C. as part-time students.

The full-time and part-time status of V.C.C. transfer students is summarized in Table 7.

TABLE 7

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by full or part-time classification and mean over-all grade point average while in attendance at Vancouver City College.

Faculty and year	Full time student			Part time student			Total		
	No.	%	Mean GPA	No.	%	Mean GPA	No.	%	Mean GPA
Arts Second Year	89	33.4	2.46	8	20.0	3.07	97	31.7	2.51
Third Year	18	6.8	2.75	2	5.0	3.00	20	6.5	2.78
Commerce First Year	29	10.9	2.30	4	10.0	1.93	33	10.8	2.26
Applied Science First Year	16	6.0	2.66	5	12.5	2.48	21	6.9	2.62
Science Second Year	39	14.7	2.48	7	17.5	2.85	46	15.0	2.53
Education (Transfer) Second Year	37	13.9	2.53	7	17.5	2.89	44	14.4	2.59
Education (Elem) A2 Second Year	17	6.4	2.21	3	7.5	1.97	20	6.5	2.18
Education (Sec) Second Year	21	7.9	2.34	4	10.0	2.69	25	8.2	2.40
Total	266	100.0		40	100.0		306	100.0	

Grade Point Average

The grade point average has been in the past the single most important standard in admitting Junior college transfer students to some public universities. A philosophy has prevailed in these public universities that students who earned Junior college grade point averages of 2.0 and above should be allowed to transfer. With the growing enrollment pressures on universities, some have raised the required grade point average to 2.5, and in some cases even higher. The grade point average for V.C.C. students was calculated for each semester that the student was in attendance. The semester G.P.A. was then averaged to give one figure for the entire period of the student's enrollment at V.C.C. The mean of these grade point averages was then calculated for each of the eight faculties. The mean over-all grade point average in all cases was above the 2.0 level.

A summary of the mean over-all grade point averages is given in Table 7.

The highest mean over-all G.P.A. was obtained by the twenty students who entered third year Arts. This mean G.P.A. was 2.78. The second highest mean G.P.A., 2.62 was obtained by the twenty-one students entering first year Applied Science. The faculties of Education (second year-transfer), Science (second year) and Arts (second year) had a mean G.P.A. of 2.59, 2.53 and 2.51 respectively. Considerably below this were the remaining two Education faculties, the secondary program and elementary A2 program with 2.40 and 2.18.

Comparisons of mean G.P.A. obtained by full-time students with part-time students shows a significant difference. In five faculties the mean G.P.A. was higher for part-time students than full-time. This was

most apparent in the second year Arts Faculty where the eight part-time students obtained a mean G.P.A. of 3.07 as compared to the 2.46 obtained by the 89 full-time students. The seven part-time students in Science earned a mean G.P.A. of 2.85 as contrasted to the 39 full-time student mean G.P.A. of 2.48; while the part-time students in the two Education Faculties on the transfer and secondary program obtained mean G.P.A.'s of 2.89 and 2.69 as compared to the full-time student with 2.53 and 2.34. Higher mean G.P.A.'s were obtained by full-time students over part-time students in three faculties. The 29 full-time students entering first year Commerce had an average G.P.A. of 2.30 as compared to 1.93 for the four part-time students. Mean G.P.A.'s for full-time students in the faculties of Education (elementary) A2 program and Applied Science were 2.21 and 2.66 as compared to 1.97 and 2.48 for part-time students.

V.C.C. letter grades were converted to a common four-point scale where C = 2.

In the eight faculties studied, 53 students entered U.B.C. from V.C.C. with an over-all G.P.A. less than 2.00. In other words 17.3 per cent of the students had less than a C over-all average.

The largest single group of students, 61.1 percent of the total obtained an over-all G.P.A. of between 2 and 2.9. This also applied to the individual faculties where the percentage of students obtaining an over-all G.P.A. of 2 to 2.9 ranged from a high of 72.0 percent for those entering second year Education, secondary program to a low of 51.6 percent for those entering first year Commerce. Sixty-four (20.9 percent) of the 306 students had an over-all G.P.A. of 3 to 3.9.

All entrants to first year Applied Science had over-all G.P.A's of 2 or over. This was not the case in the remaining seven faculties. The greatest percentage of transfer students with a V.C.C. over-all grade point average under 2.0, that is, less than a C standing, were to be found entering first year Commerce. One third of the 33 students entering this faculty did so with an under 2.0 G.P.A. Six students (30.0 per cent) of the twenty who entered second year Education-elementary program, had below a 2.0 over-all average. The percentages of below 2.0 over-all average students in the three Faculties of Education range from 9.1 percent to 30.0 percent. Considering the Faculties of Education as a unit, fourteen students (15.7 percent) out of the 89 were below the 2.0 level.

Table 8 indicates the over-all grade point averages for the eight faculties under consideration.

The number of F (fail), I (incomplete) and P (pass) grades received by V.C.C. transfer students while in attendance at the college are listed in Table 9 according to the U.B.C. faculty entered. The thirty-three first year Commerce students had an aggregate total of sixteen failing grades while in attendance at V.C.C. Students entering this faculty had the highest ratio of "fail" grades before actual transfer to U.B.C.; ten of the "fail" grades where upgraded to at least a "pass" grade. The next highest ratio of "fail" grades were found in the students entering third year Arts and second year Arts. The aggregate total of failures while at V.C.C. were 4 and 19 respectively; two of the failures for the third year Arts students and 9 of the failures for the second year Arts students were upgraded to at least a "pass" before transfer to U.B.C.

TABLE 8

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by over-all grade point average grouping while in attendance at Vancouver City College.

Over-all G P A Group		Arts 2nd yr.		Arts 3rd yr.		Commerce 1st yr.		Applied Sc. 1st yr.		Science 2nd yr.		Education 2nd yr. (Transfer)		Education 2nd yr. (Elem)		Education 2nd yr. (Secondary)		Total
4	No.	1		-		-		-		1		-		-		-		2
	%	1.0		-		-		-		2.2		-		-		-		.7
3 - 3.9	No.	22	80	8	19	4	21	7	21	10	37	10	40	-	14	3	21	64
	%	22.7	82.5	40.0	95.0	12.1	63.6	33.4	100	21.8	80.4	22.7	90.9	-	70.0	12.0	84.0	20.9
2 - 2.9	No.	57		11		17		14		26		30		14		18		187
	%	58.8		55.0		51.0		66.6		56.4		68.2		70.0		72.0		61.1
1 - 1.9	No.	17		1		11		-		9		4		6		4		52
	%	17.5		5.0		33.4		-		19.6		9.1		30.0		16.0		17.0
Less than 1	No.	-	17	-	1	1	12	-	-	-	9	-	4	-	6	-	4	1
	%		17.5		5.0	3.0	36.4		-		19.6		9.1		30.0		16.0	.3

TABLE 7

Numbers of Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, receiving "fail", "incomplete" or "passed" grades in a course while at Vancouver City College.

	Arts 2nd yr.	Arts 3rd yr.	Comm. 1st yr.	Ap'd. Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Elem)	Educ. 2nd yr. (Sec)	Total	
Fail										
Not upgraded	10	2	6	1	2	1	-	1	22	
Upgraded	9	2	10	1	2	1	-	-	25	
Total	19	4	16	2	4	2	-	1	—	47
Incomplete										
Not upgraded	9	-	3	-	1	4	1	2	11	
Upgraded	5	-	2	-	2	1	-	-	5	
Total	14	-	5	-	3	5	1	2	—	16
Passed										
Not upgraded	41	5	13	3	15	15	13	8	113	
Upgraded	4	2	6	3	8	3	-	4	27	
Total	45	7	19	6	23	18	13	12	—	140
Total students in faculty	97	20	33	21	46	44	20	25		306

The lowest aggregate total of fail grades before transfer to U.B.C. were obtained by the 89 students entering the three Faculties of Education.

The highest aggregate ratio of "pass" obtained at V.C.C. were found in students transferring to the Faculty of Education, second year, elementary program. None of these grades were upgraded to the C or better level. Students transferring to the Faculty of Commerce, first year, had the second highest proportion of pass grades while at V.C.C. Six of these pass grades were upgraded to at least the C level. The lowest ratio of pass grades were obtained by students entering first year Applied Science.

Selected V.C.C. Subjects

Sixteen V.C.C. subjects carrying direct transfer credit to U.B.C., within the eight faculties previously listed for detailed study are outlined in Table 10. In each of the subject categories, two semesters at V.C.C. are required for transfer of credit for the appropriate U.B.C. course. The courses may be listed as A and B as in the case of English 17A and English 17B or as two separately numbered courses as for example English 23 and English 24. The letter grade for each of the two courses was averaged after assigning the appropriate grade-point numeral. The number of students receiving the final grade for the two courses was then tabulated in Table 10. Each course sequence was considered as one course. In other words a student taking English 17A and English 17B, considered at V.C.C. to be two separate courses, would be listed just once in the column under English 17A and English 17B.

TABLE 10

Vancouver City College grades obtained prior to transfer, by transfer students in sixteen selected college courses.

VCC Course	UBC Equiv	VCC Letter Grade A	B	C			P		Total
		VCC G.P.A. 4.0	3.5	3.0	2.5	2.0	1.5	1.0	
En 17A	En 100	10	28	45	71	85	11	2	252
17B		4.0	11.1	17.8	28.2	33.7	4.4	.8	100.0%
En 23	En 200	5	5	9	21	33	7	3	83
24		6.0	6.0	10.8	25.4	39.8	8.4	3.6	100.0%
Hi 22	Hi 206	10	9	18	23	35	10	1	106
23		9.4	8.5	17.0	21.7	33.1	9.4	.9	100.0%
Hi 24	Hi 202	2	11	42	40	30	4	1	130
25		1.5	8.	32.2	30.8	23.1	3.1	.8	100.0%
Psy15A	Psy 100	13	12	22	43	53	15	4	162
15B		8.0	7.4	13.6	26.6	32.6	9.3	2.5	100.0%
Psy22	Psy 206	2	3	5	4	2	-	1	17
23		11.8	17.0	29.4	23.5	11.8	-	5.9	100.0%
Ec 21A	Ec 200	1	4	6	13	11	2	1	38
21B		2.6	10.5	15.8	34.2	29.0	5.3	2.6	100.0%
Ma 15A	Ma 110	9	14	20	38	56	12	4	153
15B		5.9	9.2	13.1	24.8	36.6	7.8	2.6	100.0%
Ma 27A	Ma 202	-	1	2	2	7	-	-	12
27B		-	8.3	16.7	16.7	58.3	-	-	100.0%
Geol8	Geo 101	9	9	18	25	27	11	3	102
19		8.8	8.8	17.7	24.5	26.5	10.8	2.9	100.0%
Fr 17A	Fr 110	8	7	27	15	23	11	3	94
17B		8.5	7.4	28.8	15.9	24.5	11.7	3.2	100.0%
Psy15A	Pys 110	4	6	15	21	14	3	2	65
15B		6.1	9.2	23.1	32.4	21.5	4.6	3.1	100.0%
Fr 29A	Fr 220	1	-	1	1	5	5	-	13
29B		7.7	-	7.7	7.7	38.4	38.4	-	100.0%
Ch 15A	Ch 110	4	3	11	20	23	19	1	81
15B		4.9	3.7	13.6	24.7	28.4	23.5	1.2	100.0%
Bi 16A	Bi 101	7	8	14	22	36	9	3	99
16B		7.1	8.1	14.1	22.2	36.4	9.1	3.0	100.0%
Soc20	Soc 200	4	2	13	2	8	-	-	29
21		13.8	6.9	44.8	6.9	27.6	-	-	100.0%
	Total	89	122	263	361	448	119	29	1436

From this it will be observed that 10 students of English 17A and English 17B earned a 4.0 average, that is, an A grade. Seventy-three (28.9 percent) of those students taking the English 17A/B sequence earned final grades of B.

The percentages of students receiving A grades in the sixteen listed subjects ranged from a low of 1.5 percent (History 24/25 - Canadian History) to a high of 13.8 percent (Sociology 20/21 - Introduction to Sociology). The lowest proportion of B grades within a subject sequence were issued to students of English 23/24. They received 16.8 percent B grades while students of Sociology 20/21 obtained 51.7 percent to give the largest percentage of B grades for any one subject sequence. The twenty-nine Sociology 20/21 students transferring to one of the eight faculties at U.B.C. obtained, while at V.C.C. grades of C or better. This was the only subject sequence where there were no P (pass), I (incomplete) or F (fail) grades given. As one might well expect there was a wide variation between percentages of students receiving certain grades, according to subject and numbers of persons taking the particular subject.

Achievement

Achievement of U.B.C. students is recorded using two criteria. The first is the average percent obtained. This figure is based on subjects actually completed. In other words, courses in which a student did not write a final examination, are not used to calculate the average. The second criteria used to indicate achievement is the term end "status" of the student, that is, first class, partial pass, supplementals granted, failed year and so on. In certain limited cases it would

be possible for a student to earn for example a percent average of 55. A 55 percent average would normally receive a "pass" grade. However, for certain reasons that need not be elaborated here, the student concerned could possibly be granted a "fail" status for the term. Similarly a student with very high achievement in four of five subjects could receive, as an example, an 85 percent average although he actually failed in the fifth subject. His record would then indicate the 85 per cent average as well as a "failed one subject" or "supplemental granted".

In most cases we are concerned with the final status of the student. However, in order to give as clear a picture as possible, in certain cases the percent obtained is also used to evaluate student achievement. The year-end status of V.C.C. transfer students after their first year in attendance at U.B.C. is indicated in Table 11 for the eight selected faculties representing 81.4 percent of the transfer students. Also included in this Table is the year end status of the "regular" student in the particular faculty. A "regular" student is defined as all students other than the V.C.C. transfer group.

Of the total of 306 transfer students under study, 11 (3.6 percent) earned a "first class" status. This may be compared to the 252 (5.8 percent) of 4342 regular U.B.C. students in the eight faculties who received a "first class" standing. Seventy-five (24.5 percent) of V.C.C. transferees as compared with 1505 (34.7 percent) of the regular enrollment obtained a "second class" mark, while 51 (16.7 percent) of V.C.C. students and 648 (14.8 percent) of the regular sample received a "pass" grade. These three grades represent the clear passing grades

TABLE 11

Comparison of year end status of Vancouver City College transfer University of British Columbia with the regular U.B.C. populace

Status	Student		Arts 2nd yr.	Arts 3rd yr.	Commerce 1st yr.	Applied Sc. 1st yr.
First class	Transfer	No.	3	1	1	1
		%	3.1	5.0	4.7	4.7
	Regular	No.	71	67	8	9
		%	5.4	6.7	2.4	2.3
Second class	Transfer	No.	21	9	8	2
		%	21.7	45.0	24.2	9.5
	Regular	No.	406	448	118	108
		%	31.1	45.0	35.5	27.4
Pass	Transfer	No.	17	2	6	5
		%	17.5	10.0	18.2	23.8
	Regular	No.	196	114	62	83
		%	14.9	11.5	18.7	21.1
Partial Pass	Transfer	No.	13	3	2	-
		%	13.4	15.0	6.1	
	Regular	No.	8	25	2	2
		%	.6	2.5	.6	.5
Supplement granted	Transfer	No.	11	4	3	7
		%	11.3	20.0	9.1	33.4
	Regular	No.	114	61	58	56
		%	8.7	6.1	17.4	14.2
Subjects failed	Transfer	No.	18	-	2	-
		%	18.6		6.1	
	Regular	No.	289	143	51	47
		%	22.1	14.4	15.4	11.9
Failed year	Transfer	No.	7	1	8	5
		%	7.2	5.0	24.2	23.8
	Regular	No.	130	47	22	43
		%	9.9	4.7	6.7	10.9
Withdrew and Others	Transfer	No.	7	-	3	1
		%	7.2		9.1	4.8
	Regular	No.	96	90	11	46
		%	7.3	9.1	3.3	11.7
TOTAL	Transfer	No.	97	20	33	21
		%	100.0	100.0	100.0	100.0
	Regular	No.	1310	995	332	394
		%	100.0	100.0	100.0	100.0

students at the end of their first year in attendance at the
for eight selected faculties, April 1968.

Science 2nd yr.	Education (Transfer) 2nd yr.	Education (Elementary) 2nd yr.	Education (Secondary) 2nd yr.	Total
3 6.5	1 2.3	- -	1 4.0	11 3.6
84 10.1	4 2.3	6 4.1	3 1.9	252 5.8
8 17.4	17 38.7	3 15.0	7 28.0	75 24.5
228 27.5	90 51.1	54 36.8	53 33.6	1505 34.7
5 10.9	8 18.2	6 30.0	2 8.0	51 16.7
106 12.8	20 11.4	44 29.9	23 14.5	648 14.8
6 13.0	1 2.3	1 5.0	1 4.0	27 8.8
9 1.1	7 4.0	- -	5 3.2	58 1.3
6 13.0	4 9.1	2 10.0	6 24.0	43 14.1
74 8.9	13 7.4	15 10.2	19 12.0	410 9.5
7 15.2	9 20.4	6 30.0	2 8.0	44 14.4
157 18.9	20 11.4	14 9.5	31 19.6	752 17.3
8 17.4	2 4.5	2 10.0	5 20.0	38 12.4
113 13.6	8 4.5	6 4.1	12 7.6	381 8.9
3 6.5	2 4.5	- -	1 4.0	17 5.5
59 7.1	14 7.9	8 5.4	12 7.6	336 7.7
46 100.0	44 100.0	20 100.0	25 100.0	306 100.0
830 100.0	176 100.0	147 100.0	158 100.0	4342 100.0

of students on a full program, therefore, 137 (44.8 percent) V.C.C. transfer students compared with 2405 (55.3 percent) of the total regular students received clear passing grades. On the other hand 38 (12.4 percent) V.C.C. students completely failed the year, while 381 (8.9 percent) of the regular students in attendance for these faculties received a complete failure.

A higher percentage of the V.C.C. transfer group who entered the eight faculties received a pass standing, supplementals granted, or complete failure, than was found for the regular students enrolled in these faculties.

When the individual faculties are considered V.C.C. students received a higher proportion of first class standing than did the regular student body in first year Commerce (V.C.C., 4.7 percent; regular students, 2.4 percent), first year Applied Science (V.C.C., 4.7 percent; regular, 2.3 percent), and second year Education, secondary program (V.C.C., 4.0 percent, regular, 1.9 percent). A lower percentage of first class standing grades by V.C.C. students was experienced in the second and third year faculties of Arts, second year Science and second year Education-elementary program.

A proportionately fewer number of V.C.C. students received second class standing than did the regular students in all faculties with the exception of third year Arts where the percentages were the same.

V.C.C. transfer students had a higher percentage of pass grades than the regular students in second year Arts, Applied Science and second year Education-transfer, but in the remaining five faculties the percentages of V.C.C. students obtaining "pass" grades were lower

than or equal to the regular student.

The ratio of failure grades of V.C.C. students was greater than for the regular students in six of the eight faculties. The most noteworthy faculties were Commerce where the failure rate was 24.2 percent for V.C.C. students and 6.7 percent for the regular students: Applied Science, 23.8 percent for V.C.C.; 10.9 percent for the regular students and Education secondary program 20.0 percent for V.C.C. and 7.6 percent for the regular students. The figures given in Table II include all the transfer students entering the eight faculties under study. If, however, the fifty-three transfer students who completed their studies at V.C.C. with a G.P.A. of under 2.00, that is, with a below "C" standing, were not included in the calculation of final standings, then the achievement of the transfer students would be at least equivalent to the U.B.C. regular student group. Since the under 2.00 G.P.A. students are marginal students and by the very fact of their low achievement considered by college authorities to be doubtful candidates for university, the removal of these students from the calculations may well give a more valid picture when making a comparison with the regular student. In considering students with an over-all G.P.A. of 2.0 or better at time of transfer, 127 students (50.2 percent) had a pass status or better on a full program of 5 courses at the end of one year at U.B.C., as compared with 55.3 percent of the regular university group. If students with a "partial pass" standing are included (a "partial pass" is given at U.B.C. when a student passes all courses taken when the total number of courses taken is four or less, or if the number of credits

taken in the one year is less than fifteen) then 149 V.C.C. students (58.9 percent) on a full and partial program "passed" as compared with 56.6 percent of the regular students.

In other words the pass rate in this case of V.C.C. students is similar to the regular university sample. This similarity should also be observed in the "failed year" category where 7.9 percent of V.C.C. students and 8.9 percent of the regular U.B.C. group achieved this grade. A summary of these findings is included in Table 12.

A further analysis of the transfer student was conducted to determine his relative achievement at the end of the first year in attendance at U.B.C. in relationship to his over-all grade point average while at V.C.C.

The term-end status of students who obtained an over-all G.P.A. at V.C.C. of 1.99 or less was determined. None of these students received a first class standing. Four (7.6 percent) earned a second class standing, six (11.3 percent) a pass standing and eighteen (34.0 percent) completely failed the year. The performance of these students is summarized by faculty in Table 13.

For students who obtained an over-all G.P.A. of 2.00 to 2.49 while at V.C.C., 20 (17.4 percent) received a second class standing, 20 (17.4 percent) received a pass grade and 13 (11.2 percent) failed. The data has been summarized by faculty in Table 14.

Of the 75 students who achieved, while at V.C.C., an over-all G.P.A. of 2.50 to 2.99, one (1.4 percent) earned a first class standing at U.B.C., 19 (25.6 percent) a second class standing, 21 (28.4 percent)

TABLE 12

Status of Vancouver City College transfer students after completion of one year at the University of British Columbia according to G.P.A. while at V.C.C. and compared with the status of regular UBC students.

Status	VCC transfer students with a GPA while at VCC of between: 2.0 and 4.0		2.5 and 4.0		U.B.C. regular students	
	No.	%	No.	%	No.	%
First class	11	4.3	11	8.0	252	5.8
Second class	71	28.1	51	36.9	1505	34.7
Pass	45	17.8	25	18.1	648	14.8
Partial pass	22	8.7	12	8.7	58	1.3
Supplement granted	38	15.0	12	8.7	410	9.5
Subjects failed	36	14.2	14	10.1	752	17.3
Failed year	20	7.9	7	5.1	381	8.9
Withdrew & Others	10	4.0	6	4.4	336	7.7
Total	253	100.0	138	100.0	4342	100.0

TABLE 13

Status of Vancouver City College students with a G.P.A. under 2.0 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia.

Status	Arts 2nd yr.	Arts 3rd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. (trans.)	Educ. (Elem)	Educ. (Sec)	Total No.	Total %
First Class	-	-	-	-	-	-	-	-	-	-
Second Class	-	-	1	-	1	2	-	-	4	7.6
Pass	2	-	-	-	2	-	1	1	6	11.3
Partial Pass	2	1	1	-	-	-	1	-	5	9.4
Supplement Granted	2	-	1	-	1	-	1	-	5	9.4
Subjects Failed	4	-	2	-	1	-	1	-	8	15.1
Failed Year	4	-	5	-	4	1	2	2	18	34.0
Withdrew	-	-	-	-	-	1	-	-	1	1.9
Other	3	-	2	-	-	-	-	1	6	11.3
Total	17	1	12	-	9	4	6	4	53	100.0

TABLE 14

Status of Vancouver City College students with a G.P.A. of 2.00 to 2.49 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia.

Status	Arts 2nd yr.	Arts 3rd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. (Trans)	Educ. (Elem)	Educ. (Sec)	Total No.	Total %
First class	-	-	-	-	-	-	-	-	-	-
Second class	7	-	3	-	-	5	2	3	20	17.4
Pass	6	1	3	1	2	3	3	1	20	17.4
Partial pass	5	-	1	-	3	1	-	-	10	8.7
Supplement granted	7	3	1	3	4	3	1	4	26	22.6
Subjects failed	6	-	-	-	3	7	4	2	22	19.2
Failed year	3	1	1	5	-	-	-	3	13	11.2
Withdrew	-	-	-	-	-	-	-	-	-	-
Other	1	-	1	1	1	-	-	-	4	3.5
Total	35	5	10	10	13	19	10	13	115	100.0

a pass grade and 5 (6.7 percent) failed. This information by faculty is summarized in Table 15.

The highest percentage of first class grades were obtained by students who earned an over-all G.P.A. of 3.00 to 4.00 while at V.C.C. Ten students (15.6 percent) gained a first class grade at U.B.C. while 32 (50.0 percent) received a second class and 4 (6.3 percent) a pass grade. Two students (3.1 percent) failed the year. The term-end status of these students is indicated in Table 16.

It has been previously mentioned that two methods may be used to indicate achievement. Actual percentages achieved in the various subjects may be averaged for an over-all percentage. U.B.C. records indicate this average percentage as well as the term-end status of the student. By using this average percentage and by assuming that an "A" grade at V.C.C. is equivalent to 80 per cent or higher (a first class standing at U.B.C.), a "B" grade, 65 to 79 per cent (a second class at U.B.C.), a "C" grade, 50 to 64 percent (a pass grade at U.B.C.) and a P or F grade at V.C.C. under 50 percent (a failing grade at U.B.C.), a comparison of the final over-all grade achieved at V.C.C. was made with the term-end status at U.B.C. achieved by this same group of V.C.C. transfer students. The results are recorded in Table 17. Of the 306 students enrolling in the eight selected faculties 3 (.9 percent) while in attendance at V.C.C. acquired an over-all "A" grade, while 12 (3.9 percent) of the same group obtained a first class standing at the end of their first year at U.B.C. Fifty eight students (18.9 percent) obtained an over-all "B" grade at V.C.C., 187 (61.5 percent) a "C" grade and

TABLE 15

Status of Vancouver City College students with a G.P.A. of 2.50 to 2.99 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia.

Status	Arts 2nd yr.	Arts 3rd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. (Trans)	Educ. (Elem)	Educ. (Sec)	Total No.	Total %
First class	-	-	-	-	1	-	-	-	1	1.4
Second class	5	4	2	-	3	2	1	2	19	25.6
Pass	7	1	3	2	1	5	2	-	21	28.4
Partial pass	3	-	-	-	2	-	-	1	6	8.1
Supplement granted	-	1	1	3	1	1	-	2	9	12.3
Subjects failed	6	-	-	-	3	1	1	-	11	14.7
Failed year	-	-	2	-	2	1	1	-	5	6.7
Withdrew	-	-	-	-	-	1	-	-	1	1.4
Other	1	-	-	-	-	-	-	-	1	1.4
Total	22	6	8	5	13	11	4	5	74	100.0

TABLE 16

Status of Vancouver City College students with a G.P.A. of 3.00 to 4.00 who entered the University of British Columbia, September 1967, in eight selected faculties, at the end of the first year in attendance at the University of British Columbia.

Status	Arts 2nd yr.	Arts 3rd yr.	Commerce 1st yr.	Ap'd. Sc 1st yr.	Science 2nd yr.	Educ. (Trans) 2nd yr.	Educ. (Elem) 2nd yr.	Educ. (Sec) 2nd yr.	Total No.	Total %
First Class	3	1	1	1	2	1	-	1	10	15.6
Second Class	9	5	2	2	4	8	-	2	32	50.0
Pass	2	-	-	2	-	-	-	-	4	6.3
Partial Pass	3	2	-	-	1	-	-	-	6	9.4
Supplement Granted	2	-	-	1	-	-	-	-	3	4.7
Subjects Failed	2	-	-	-	-	1	-	-	3	4.7
Failed Year	-	-	-	-	2	-	-	-	2	3.1
Withdrew	2	-	-	-	-	-	-	-	2	3.1
Other	-	-	-	-	2	-	-	-	2	3.1
Total	23	8	3	6	11	10	-	3	64	100.0

TABLE 17

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by final standing (using percentage averages) at Vancouver City College and at the University of British Columbia.

Over-all standing	Arts 2nd yr.	Arts 3rd yr.	Comm. 1st yr.	App. Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Elem)	Educ. 2nd yr. (Sec)	Total No.	Total %
VCC A	2	-	-	-	1	-	-	-	3	.9
UBC 1	4	2	1	1	2	-	-	2	12	3.9
VCC B	19	8	3	7	8	10	-	3	58	18.9
UBC 2	26	10	7	5	10	18	2	7	85	27.8
VCC C	58	11	18	14	25	30	13	18	187	61.5
UBC P	54	7	15	9	23	23	13	13	157	51.7
VCC P/F	13	1	11	-	8	4	5	4	46	15.0
UBC F	8	1	9	6	7	3	3	3	40	13.1
Total*	97	20	33	21	46	44	20	25	306	

* Totals are based on numbers of students enrolling in the faculty, rather than the numbers receiving the indicated standing.

46 (15.0 percent) a "pass"[1] or "fail" grade; while at the end of the first year in attendance at university, 85 (27.8 percent) received a "second class" standing, 157 (51.7 percent) a "pass" standing and 40 (13.1 percent) a failing grade. These figures would indicate that a larger proportion of the V.C.C. students in these faculties are achieving first and second class standing at U.B.C. than did receive "A" and "B" standing while at V.C.C. Students who received "deferred" grades, withdrew from the university, or who did not write required examinations were not included in this table. Hence the totals do not add up to the 306 students registered in these eight faculties.

As one might expect, students who received either a "pass", "fail" or "incomplete" grade for at least one course while attending V.C.C. tended to achieve at somewhat a lower level at U.B.C. when compared with students entering U.B.C. without a P, F or I grade from V.C.C. Of the 306 students in the eight selected faculties, 294 were studied from the point of view of achievement in relationship to P, F or I grades. 152 students had a V.C.C. record clear of any of these three grades, while 142 had at least one P, F or I grade listed on their official V.C.C. record. The performances of these students are summarized on a faculty basis in Table 18 and Table 19. In each case a greater percentage of students obtained first and second class

---

[1] A "pass" grade is considered by college faculty as a non-university standing grade, hence its inclusion with the "fail" category in this report.

TABLE 18

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by final standing (using percentage averages) at Vancouver City College and at the University of British Columbia for students who did not earn a P, F or I grade for any subject while at V.C.C.

Over-all standing	Arts 2nd yr.	Arts 3rd yr.	Comm. 1st yr.	App. Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Elem)	Educ. 2nd yr. (Sec)	Total No.	Total %
VCC A	2	-	-	-	1	-	-	-	3	2.0
UBC 1	4	2	1	1	2	-	-	2	12	7.9
VCC B	16	7	2	6	7	10	-	3	51	33.6
UBC 2	16	8	2	4	9	15	2	4	60	39.5
VCC C	21	6	9	7	18	17	7	11	96	63.1
UBC P	19	2	6	6	12	12	4	7	68	44.7
VCC P/F	1	-	-	-	-	-	-	1	2	1.3
UBC F	1	1	2	2	3	-	1	2	12	7.9
Total*	40	13	11	13	26	27	7	15	152	100.0

* Totals are based on numbers of students enrolling in the faculty, rather than the numbers receiving the indicated standing.

TABLE 19

Vancouver City College students entering the University of British Columbia, September 1967, in eight selected faculties, by final standing (according to percentage average) at Vancouver City College and at the University of British Columbia for students with either a P, F or I grade for at least one subject while at V.C.C.

Over-all standing	Arts 2nd yr.	Arts 3rd yr.	Comm. 1st yr.	App. Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Elem)	Educ. 2nd yr. (Sec)	Total No.	Total %
VCC A	-	-	-	-	-	-	-	-	-	
UBC 1	-	-	-	-	-	-	-	-	-	-
VCC B	3	1	1	1	1	-	-	-	7	4.9
UBC 2	10	2	5	1	1	3	-	3	25	17.6
VCC C	37	5	9	7	7	13	6	7	91	64.0
UBC P	35	5	9	3	11	11	9	6	89	62.7
VCC P/F	12	1	11	-	8	4	5	3	45	31.7
UBC F	7	-	7	4	4	3	2	1	29	20.4
Total*	52	7	21	8	16	17	11	10	142	

* Totals are based on numbers of students enrolling in the faculty, rather than the numbers receiving the indicated standing.

standing while at U.B.C. than obtained the comparable grade of A or B while at V.C.C. For example, of the group without P, F or I grades, 12 (7.9 percent) and 60 (39.5 percent) students received a first class and second class standing respectively at U.B.C. while only 3 (2.0 percent) and 51 (33.6 percent) of the same group of students had obtained the equivalent A and B grades at V.C.C. No student with a P, F or I grade while at V.C.C. or U.B.C. obtained either the A grade or first class standing. However, 25 students (17.6 percent) received a second class standing at U.B.C. as contrasted with only 7 students (4.9 percent) of the same group who obtained a "B" standing while at the college.

The highest proportion of failing averages were found in the transfer group whose records while at V.C.C. indicated either P, F or I grades. Twenty-nine of 142 students (20.4 percent) in this category achieved failing averages as compared with 12 of 152 students (7.9 percent) who had C or better grades while at the college.

Mature and College Age Students

An analysis of achievement of mature and college age transfer students was carried out on 207 students from the following four faculties: second and third year Arts, second year Science and second year Education-transfer program. There were found in these four faculties a significant number of "mature students".

In these four faculties, 45 students where listed as "mature students", with the remaining 162 students under 25 years of age, (to

be known as "college-age" students). The mature students had a higher ratio of first and second class averages; while at U.B.C. as well as V.C.C. While at V.C.C., the mature students with grade point averages in the "A" and "B" category amounted to 4.3 percent and 42.2 percent as compared with the college age group of .6 percent and 16.1 percent. At the end of their first term at U.B.C. 6.8 percent and 46.7 percent of the mature students received first class standing and second class standing respectively as compared with 3.1 percent and 26.8 percent of the college age grouping. It should also be noted that a greater percentage of mature students received first and second class averages at U.B.C. than did receive A and B averages at V.C.C. First class averages at U.B.C. were obtained by 6.8 percent as compared to 4.3 percent while at V.C.C. and 46.7 percent received second class averages at U.B.C. as compared to 42.2 percent while in attendance at V.C.C.

Mature students likewise received less C and P/F grades from V.C.C. and less P and F grades from U.B.C. than did the college-age group. The results of mature students and college-age students are summarized by faculty in Table 20.

Achievement of Full and Part-time Students

A comparison of the average percentage achievement of V.C.C. transfer students according to full-time and part-time classification when in attendance at V.C.C. was conducted using four faculties: second year Arts, second year Science, second year Education-transfer program and first year Applied Science. These four faculties, as indicated in Table 7, had

TABLE 20

Vancouver City College students entering the University of British Columbia, September 1967, in four selected faculties, by college age or mature classification, and final standing (according to percentage average) at Vancouver City College and at the University of B.C.

	Arts 2nd yr.		Arts 3rd yr.		Science 2nd yr.		Education 2nd yr. (Trans)		Total			
	College Age	Mature	College Age	Mature	College Age	Mature	College Age	Mature	College Age No.	College Age %	Mature No.	Mature %
VCC A	-	2	-	-	1	-	-	-	1	.6	2	4.3
UBC 1	2	2	1	1	2	-	-	-	5	3.1	3	6.8
VCC B	14	5	4	4	3	5	5	5	26	16.1	19	42.2
UBC 2	20	6	7	3	5	5	11	7	43	26.8	21	46.7
VCC C	54	4	10	1	22	3	17	13	103	63.7	21	46.7
UBC P	50	4	6	1	20	3	13	10	89	55.0	10	40.9
VCC P/F	11	2	1	-	7	1	4	-	23	14.2	3	6.8
UBC F	7	1	1	-	6	1	3	-	16	9.9	3	4.4
Total	84	13	15	5	37	9	26	18	162		45	

the greatest percentage of students classified as "part-time" while in attendance at V.C.C. Of the forty students considered as part-time, twenty-seven (67.5 percent) were in these four faculties. The numbers of part-time students in the other faculties were considered too small for any significant analysis. On considering the average percentage achievement at the end of one year at U.B.C., with the exception of first class or "A" students, the ratio of part-time V.C.C. transfer students achieving the "second class" and "pass" status was lower than for the same group while in attendance at V.C.C. Eleven part-time students (40.7 percent) while as V.C.C. earned an over-all G.P.A. equivalent to a B standing, while at U.B.C. eight students (29.6 percent) achieved at the second class level. A slight drop in the numbers was observed for the "C" or "pass" status, with 11 part-time students (40.7 percent) obtaining a C average at the college and 10 students (37.0 percent) a "pass" average at university. In the case of "pass" and "fail" standing at V.C.C., one part-time student (3.7 percent) was in this category, but a higher number, four students (14.8 percent) received a fail status at U.B.C.

In comparing the achievement at U.B.C. of the transfer student who attended V.C.C. on a part-time or full-time basis, a slightly higher percentage of part-time students received first and second class averages; 7.4 percent received a first class average and 29.6 percent a second class as compared with full-time city college students, of whom 2.2 percent received first class and 27.6 percent received second class.

The percentage of part-time classified students from V.C.C. who received a "fail" average was 14.8 as compared with 10.0 percent

for the full-time student from the college. A summary of these students and their average achievement while at V.C.C. and U.B.C. is listed in Table 21.

A more detailed analysis of these same part-time students using their year end status is outlined in Table 22. A larger percentage of part-time students over the full-time student received first class standing (7.4 percent to 3.3 percent), 14.8 percent of part-time students as compared with 8.8 percent full time received the partial pass status, 18.6 percent of part-time students earned the right to sit for supplemental examinations, while 12.7 percent of full-time students earned this privilege. The ratio of failures among the part-time student was somewhat higher than for the full-time student (11.1 percent for the part-time student and 10.5 percent for the full-time student).

TABLE 21

Vancouver City College students entering the University of British Columbia, September 1967, in four selected faculties, by full or part-time classification, and final standing (according to percentage average) at Vancouver City College and at the University of B.C.

Over-all standing	Arts 2nd yr.		Ap'd Sc. 1st yr.		Science 2nd yr.		Education (Transfer)		Total			
	Part	Full	Part	Full	Part	Full	Part	Full	Part No.	Part %	Full No.	Full %
VCC A	1	1	-	-	-	1	-	-	1	3.7	2	1.1
UBC 1	1	2	1	-	-	2	-	-	2	7.4	4	2.2
VCC B	5	14	2	5	2	6	2	12	11	40.7	37	20.4
UBC 2	3	22	-	5	1	9	4	14	8	29.6	50	27.6
VCC C	-	55	3	11	4	21	4	22	11	40.7	109	60.3
UBC P	2	54	2	7	4	19	2	20	10	37.0	100	55.2
VCC P/F	1	14	-	-	-	9	-	1	1	3.7	24	13.3
UBC F	1	6	2	4	1	7	-	1	4	14.8	18	10.0
Total*	8	89	5	16	7	39	7	37	27		181	

* Totals are based on numbers of students enrolling in the faculty, rather than the numbers receiving the indicated standing.

TABLE 22

Status of Vancouver City College students who entered the University of British Columbia, September 1967, according to full or part-time classification, at the end of the first year in attendance at the University of British Columbia.

Status	Arts 2nd yr.		Applied Sc. 1st yr.		Science 2nd yr.		Education (Transfer)		Total			
	Part	Full	Part	Full	Part	Full	Part	Full	Part No.	Part %	Full No.	Full %
First class	1	2	1	-	-	3	-	1	2	7.4	6	3.3
Second class	2	19	-	2	-	8	2	15	4	14.8	44	24.3
Pass	-	17	1	4	-	5	1	7	2	7.4	33	18.2
Partial pass	2	11	-	-	2	4	-	1	4	14.8	16	8.8
Supplement granted	1	10	1	6	2	4	1	3	5	18.6	23	12.7
Subjects failed	-	18	-	-	1	6	3	6	4	14.8	30	16.7
Failed year	1	6	1	4	1	7	-	2	3	11.1	19	10.5
Other	1	6	1	0	1	2	-	2	3	11.1	10	5.5
Total	8	89	5	16	7	39	7	37	27	100.0	181	100.0

PART C

Subsequent Performance of Vancouver City College Students who Transferred to the University of British Columbia in September, 1966.

A follow up study of the 144 students who transferred to six selected faculties at U.B.C. in 1966 was also conducted.

Of the original 144 transfers in 1966 into the faculties of second year Arts, first year Commerce, second year Applied Science, second year Science, second year Education - transfer program, second year Education - secondary program, forty-six (32 per cent) did not reenroll at U.B.C. for a second year. Eight (5.6 per cent) of the original 144 withdrew during their second year in attendance at the university. The two Education faculties experienced the largest percentage of students not returning to U.B.C. for a second year. Nineteen of 36 students (52.8 per cent) in the transfer program did not return while four of ten students (40.0 per cent) on the secondary program did not return. The faculty with the lowest number of students not returning was Applied Science where one student (14.3 per cent) of the original seven failed to come back for a second year. Three of nineteen students (15.8 per cent) in the Faculty of Commerce, twelve (25.6 per cent) of 47 in the Faculty of Arts and seven (28.0 per cent) of 25 students in the Faculty of Science did not reenroll.

Of those students returning for a second year, one withdrew before the end of the term from the Arts Faculty and Education Faculty - secondary program and two from each of Commerce, Science and Education - transfer program.

Eighty-one of the original 144 students (56.2 per cent) remained in the same faculty. Of these students, two first year Applied Science students remained in first year with the remaining four advancing to second year. All fourteen of the original 19 first year Commerce students remained within the faculty at a second year level. Two second year Education - secondary program students remained in second year of that faculty, with the three others progressing to the third year. The two Faculties of Arts and Education - transfer program experienced a loss of students to a different faculty. In the case of the Arts Faculty all 26 students remaining in that faculty advanced to the third year level. Eight students left the Arts Faculty for different faculties entering at the first, second and third year level. One student from second year Education transferred to the first year in another area. A total of 9 students then transferred faculties at the end of the first year at U.B.C. This information is summarized in Table 23.

TABLE 23

Faculty and year placement of Vancouver City College students who transferred to the University of British Columbia, September 1966, given at the start of their second year in the University of British Columbia.

1966 Faculty	1967-1968 Same Faculty			1967-1968 Different Faculty			Withdraw	Not re-enroll	Total
Year	1	2	3	1	2	3			
Arts Second year	-	-	26	3	3	2	1	12	47
Commerce First year	-	14	-	-	-	-	2	3	19
Applied Sc. First year	2	4	-	-	-	-	-	1	7
Science Second year	-	7	9	-	-	-	2	7	25
Education Second year	-	-	14	1	-	-	2	19	36
Education Second year	-	2	3	-	-	-	1	4	10
Total	2	27	52	4	3	2	8	46	144

Ninety students (62.5 per cent) of the 144 in the six selected faculties then completed their second year in attendance at U.B.C. This then meant a loss of 54 students for an attrition rate of 37.5 per cent between the first and second year in attendance at U.B.C.

Of the ninety-eight students commencing their second year in attendance at U.B.C., eight (8.2 per cent) withdrew, 52 (53.2 per cent) improved their average percentage achievement, 13 (13.3 per cent) remained the same or within one percentage point either way and 25 (25.5 per cent) dropped in their average percentage achievement. The faculty experiencing the largest percentage drop in achievement was Commerce, where 9 of the 16 students (56.2 per cent) achieved a lower percentage average at the end of their second year. Three Applied Science students (50.0 per cent) had a drop in percentage achievement at the end of their second year, while 4 students (22.2 per cent) in Science, and 6 students (17.2 per cent) in Arts and 3 of seventeen students (17.7 per cent) dropped in achievement in Education - transfer program. Education - secondary program, students experienced no drop in achievement, in fact all five students completing the third year of this faculty improved their average percentage achievement. This information is summarized in Table 24.

TABLE 24

Relative placement of Vancouver City College students who transferred to the University of British Columbia, September 1966, at the end of their second year in attendance at the University of British Columbia according to percentage average obtained.

Original Faculty (1966)	Number of VCC transfer students, 1966, whose percentage average for their second year over their first year at U.B.C.;				
	Improved	Remained same	Dropped	Withdrew	Total
Arts Second Year	26	2	6	1	35
Commerce First Year	2	3	9	2	16
Applied Science First Year	2	1	3	-	6
Science Second Year	8	4	4	2	18
Education Second Year	9	3	3	2	17
Education Second Year	5	-	-	1	6
Total	52	13	25	8	98

2

In order to give a more reliable picture of achievement of these students during their second year in attendance at university the year end status that is first class standing, pass, fail, etc., is summarized in Table 25.

Four of 98 students (4.1 per cent) obtained a first class standing, while 23 (23.5 per cent) and 21 (21.4 per cent) received a second class and pass standing respectively. In other words 48 students (49 per cent) had a successful completion of their full second year in attendance at U.B.C. Twenty-three students (23.4 per cent) earned a pass on a partial program; 9 were eligible to write supplemental examinations. Nine students (9.2 per cent) completely failed their second year in attendance at the university.

The status at the end of the first year at U.B.C. of those students not enrolling for a second year at the university is indicated in Table 26. Thirteen (28.3 per cent) of those not reenrolling had earned a second class standing. The major portion of those students, eleven, were from the Education faculty. It is assumed that most of these students took a teaching position in the public school system. Eleven students (23.9 per cent) received a "partial pass" and the same number a "fail" standing at the end of their first year. Six (13.0 per cent) of those not returning earned a "pass grade".

The over-all G.P.A. earned while at V.C.C. would not seem to be a determining factor in the attrition rate at the end of the first year. Of the number not returning, the largest percentage, 41.3 per cent, had a G.P.A. from V.C.C. of 2.00 to 2.49.

TABLE 25

Status of Vancouver City College students who entered the University of British Columbia, September 1966, at the end of their second year in attendance at the University of British Columbia.

Status	1966 FACULTY						Total	
	Arts 2nd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Sec)	No.	%
First class	-	-	-	2	2	-	4	4.1
Second class	13	2	-	2	5	1	23	23.5
Pass	6	3	3	2	5	2	21	21.4
Partial pass	7	5	-	7	3	1	23	23.4
Supplement granted	2	2	3	1	-	1	9	9.2
Subjects failed	-	-	-	-	-	-	-	-
Failed year	5	2	-	2	-	-	9	9.2
Withdrew & Others	2	2	-	2	2	1	9	9.2
Total	35	16	6	18	17	6	98	100.0

TABLE 26

Status at the end of the first year for Vancouver City College transfer students, in six selected faculties, who did not re-enroll for a second year at the University of British Columbia.

Status	1966 FACULTY						Total	
	Arts 2nd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Sec)	No.	%
First class	-	-	-	-	-	1	1	2.2
Second class	1	1	-	-	11	-	13	28.3
Pass	3	-	-	1	1	1	6	13.0
Partial pass	5	-	1	2	2	1	11	23.9
Supplement granted	-	-	-	-	2	1	3	6.5
Subjects failed	-	-	-	-	-	-	-	-
Failed year	3	2	-	4	1	1	11	23.9
Withdrew & Others	-	-	-	-	1	-	1	2.2
Total	12	3	1	7	19	4	46	100.0

Ten students (21.7 per cent) were listed with a G.P.A. of 2.50 to 2.99, nine (19.6 per cent) with a G.P.A. of 3.00 to 4.00 and the smallest number, eight students (17.4 per cent) with an under 2.00 G.P.A. A summary by faculty of the attrition rate is included in Table 27.

Degree Granted

Three V.C.C. transfer students graduated from U.B.C. in the spring of 1968 with their baccalaureate degree. Two students completed their fourth years in the Arts Faculty, one with a status of "pass" and a total average percentage according to U.B.C. records of 61.33 (majors in Economics and History) while the other Arts student obtained a second class standing (64.86 per cent total average) with a major in Economics. The third student graduated from fifth year with a Bachelor of Education (secondary) degree, (major in Art) and a second class standing.

All three students entered V.C.C. in September 1965. The two Arts students entered directly from the university program at a high school. The Education student graduated on the university program in 1960. All three completed their degree program on time, that is within two years of leaving V.C.C.

TABLE 27

Grade Point Average when at Vancouver City College for those students transferring in September 1966, in six selected faculties, who did not re-enroll for a second year at the University of British Columbia in September 1967.

G.P.A. at V.C.C.	1966 FACULTY						Total	
	Arts 2nd yr.	Commerce 1st yr.	Ap'd Sc. 1st yr.	Science 2nd yr.	Educ. 2nd yr. (Trans)	Educ. 2nd yr. (Sec)	No.	%
3.00 - 4.00	2	1	1	-	5	-	9	19.6
2.50 - 2.99	1	1	-	-	7	1	10	21.7
2.00 - 2.49	6	1	-	5	6	1	19	41.3
under 2.00	3	-	-	2	1	2	8	17.4
Total	12	3	4	7	19	4	46	100.0

PART D

Summary of Vancouver City College Students Transferring to the University of British Columbia.

Transfer Student Characteristics

The transfer students were predominately interested in the college as a preliminary step to enter one of the "humanities faculties" at university. Nearly two-thirds of the V.C.C. students entering U.B.C. in September 1967, entered either of the Faculties of Arts or Education. In the fourteen faculties entered, two-thirds of the students enrolled in the second year. Slightly over one quarter of the transfer students entered at a first year level. Less than ten per cent of the students transferred to a third or fourth year. It, therefore, appears that the majority of V.C.C. transfer students move on to the four year institution after completing one year or the equivalent of first year university at the community college. The "typical" transfer student was male, 20 to 24 years old when he transferred, and entered the Faculty of Arts at the second year level after earning an over-all G.P.A. at V.C.C. of between 2 and 2.9. The so-called typical transfer student studied as a full-time student for a minimum of two semesters and completed during that time ten college level courses.

Grade-Point Differentials

The V.C.C. students who transferred to the eight faculties under consideration did not generally experience a drop in their average obtained after one year at university when compared with their over-all community college average. In fact at the A and B grade level a greater proportion of the college transfer students obtained these averages at university than did while at the college. Similarly these students experienced a slightly lower rate of failure averages at university than at the college.

Comparisons with Regular Students

The college students entering university did not earn as high a ratio of upper class grades, that is first and second class standing (65 per cent average or better) as did the regular student. However, a larger proportion of college transfer students earned a pass standing (50 to 64 per cent average) and partial pass standing (passed all subjects taken, but course load less than 15 units) than was experienced with the regular student. The failure rate for the regular university student was three quarters of that given to the college transfer student. By far the largest number of complete failures among the transfer students were found in the group who had achieved while at college a G.P.A. of less than 2.0. If these marginal students had been denied admission to the university, the failure rate of college transfers would have been slightly under that of the regular student. It must, however, be noted that within this group of 53 marginal students there were a number, 15 to be exact, that did complete their course content at university with a "pass" or higher standing.

The grades of the transfer students, as measured by percentage average showed improvement during the second year of attendance at university. Over twice as many students improved their grades as dropped in their average.

College transfer students from the Faculty of Commerce reversed the upward trend observed for other faculties under study and had the greatest proportion of students dropping in average standing.

Attrition after Transfer

Of the college transfer students completing their first year at university, approximately one third did not reenroll at the end of the first year. Of the dropouts, just less than 25 percent had failed completely their year at university. Twenty-eight per cent of the dropouts had achieved second class standing. By far the largest portion of this group were from the Education Faculty and it may be assumed that they took a teaching position after the completion of the second year program. Nearly one quarter of the dropout group had received pass grades, but only on a partial program.

It is too early yet to know whether any of these students will eventually return to a university.

Grade point average did not appear to have a significant effect on the dropout. The highest dropout rate, however, was experienced by those students who had achieved a G.P.A. between 2,00 and 2.49. Forty per cent of the dropouts were in this G.P.A. range. Approximately twenty per cent of the dropouts had G.P.A.'s of between 3.00 and 4.00 and slightly over one fifth of the group had a G.P.A. between 2.50 and 2.99.

Achievement of Degree Goal

Only three college transfer students have so far graduated from university with the baccalaureate degree. Two of the students graduated with second class standing while the other student graduated with a pass standing.

All three completed their degree program on time, that is within two years of leaving the community college.

PART E

Performance of Transfer Students from Vancouver City College to the University of British Columbia in the 1967-1968 Academic Year

As previously indicated, numbers of transfer students in many faculties were quite small. However, because of the large increase over the 1966-1967 figures and with the intention of obtaining as valid picture of their performances as possible, virtually all faculties were included in the analysis. For a variety of reasons some students were excluded in the numbers indicated below. A few students withdrew before Christmas, a small number were omitted because their V.C.C. records was not available and three or four faculties had only one student registered.

With the exceptions noted above, the following figures show the number of V.C.C. transfer students in each faculty.

Arts I	17
Arts II	96
Arts III	19
Commerce I	35
Agriculture I	2
Home Economics	3
Physical Education	6
Music	2
Applied Science I	21
Science I	6

Science II and III	48
Forestry	3
Elementary Education (Transfer)	44
Elementary Education I	12
Elementary Education II	21
Secondary Education	31
Total	358

Of the transfer student performances analysed, approximately forty-one percent successfully completed their year. This figure compares favorably with the figure of thirty-four percent from 1956-1957. Of the number completing the year, approximately three percent had a first class average, twenty-one percent a second class average and seventeen percent a passing average. In addition, some ten percent completed a partial year successfully. Approximately fifteen percent failed the year completely. The other students are represented in various categories such as one or two supplementals or failures.

The performances of these students are summarized on a faculty basis in Tables 28a and 28b.

The figures indicate that students seemed to be most successful in Arts II and III and Elementary Education while least successful in Applied Science and Science.

Performance in selected courses at U.B.C.

A further analysis of transfer student performances was centered around the results obtained in a number of selected courses

TABLE 28a

Performance of V.C.C. transfers in various Faculties at the University of British Columbia

Performance	ARTS I	ARTS II	ARTS III	COMMERCE I	AGRI-CULTURE	HOME ECONOMICS	PHYSICAL EDUCATION	MUSIC	APPLIED SCIENCE I	SCIENCE I
First Class	0	4	1	1	0	0	0	0	1	0
Second Cl.	3	21	9	8	0	1	1	1	2	0
Pass	0	17	2	6	0	0	2	0	5	1
Passed Partial Year	4	14	3	2	0	0	0	0	0	2
One Supplemental	2	10	4	5	0	0	0	0	7	1
Two Supplemental	1	11	0	1	0	1	0	0	0	0
One Failure	1	9	0	2	1	1	2	0	0	0
Two Failure	0	0	0	0	0	0	0	0	1	0
Failed Year	6	7	0	9	1	0	1	1	5	2
Withdrew	0	3	0	0	0	0	0	0	0	0
Other	0	0	0	1	0	0	0	0	0	0
TOTAL	17	96	19	35	2	3	6	2	21	6

TABLE 28b

	SCIENCE II & III	FORESTRY	ELEMENTARY EDUCATION TRANSFER	ELEMENTARY EDUCATION I	ELEMENTARY EDUCATION II	SECONDARY EDUCATION	TOTAL	PER-CENT-AGE
First Class	3	0	0	0	0	2	12	3.4
Second Class	9	0	18	0	3	9	75	20.9
Pass	5	1	9	1	7	5	61	17.1
Passed Partial Year	6	0	1	3	1	1	37	10.4
One Supplemental	7	1	5	1	2	6	51	14.3
Two Supplemental	4	1	6	3	2	1	31	8.7
One Failure	3	0	3	0	4	2	28	7.9
Two Failures	0	0	0	0	0	1	2	0.6
Failed Year	9	0	2	3	2	4	52	14.6
Withdrew	2	0	0	1	0	0	6	1.8
Other	0	0	0	0	0	0	1	0.3
Total	48	3	44	12	21	31	358	100

at the University. By far the largest number of these students took English 200 (209). In other courses the numbers ranged considerably and it was decided arbitrarily to include only courses in which the enrolment of transfer students reached a minimum of ten. In all, twenty-eight courses were analysed, involving an enrolment of one thousand and eight students.

The percentage of first class, second class and failures in these courses showed a considerable range. Generally speaking, it appeared that performance improved as the course level increased.

Overall, five percent obtained first class grades, twenty-four percent gained a second class and approximately eight percent failed the course completely. These, and other performances, are summarized in Table 29.

Prediction of transfer student performance

In an attempt to determine some predictive measure of transfer student performance at U.B.C., a multiple regression analysis of the effects of three single independant variables (age, number of courses taken at V.C.C. and G.P.A. obtained at the college) upon the average obtained at U.B.C., was conducted.

The number of students involved in the study was 358, which were the same students analysed under various faculty enrolments in Table 28. All calculation was made at the U.B.C. Computing centre and showed, together with other information, the coefficient of correlation existing between each single independent variable and the criterion variable. The correlation between U.B.C. numerical average and V.C.C. grade point average was found to be +.5895. This

TABLE 29

U.B.C. grades obtained by V.C.C. transfer students in certain selected university courses.

GRADE	ENG 200	PSY 100	PSY 200	PSY 206	PSY 308	SOC 200	SOC 301	HIST 100	HIST 204
I	4 (2)	3 (9)	0	1 (3)	0	3 (75)	1 (9)	2 (3)	0
II	39 (20)	10 (30)	8 (35)	10 (29)	8 (58)	13 (325)	5 (45)	9 (15)	2 (15)
Pass	111 (52)	14 (44)	9 (39)	20 (58)	5 (35)	17 (425)	4 (36)	34 (57)	10 (77)
Supp.	37 (18)	3 (9)	3 (13)	2 (6)	0	3 (7.5)	0	8 (13)	1 (8)
Fail	9 (4)	3 (9)	1 (4)	1 (3)	0	1 (2.5)	0	3 (5)	0
D.N.W.	9 (4)	0	2 (8)	0	1 (7)	3 (7.5)	1 (9)	4 (6)	0
Total	209	33	23	34	14	40	11	60	13

NOTE: The figures in brackets in each case indicate percentage. As these are rounded figures, they do not always total 100.

TABLE 29 (cont.)

GRADE	MATH 120	MATH 155	MATH 156	MATH 200	MATH 201	MATH 202	MATH 203	PHY 155	PHY 156
I	0	1 (4)	5 (21)	0	2 (5)	2 (5)	2 (2)	5 (20)	4 (16)
II	2 (10.5)	3 (11)	10 (42)	3 (135)	11 (27)	12 (30)	15 (18)	7 (28)	10 (40)
Pass	6 (31.5)	14 (52)	7 (29)	11 (495)	16 (39)	16 (40)	33 (39)	9 (36)	6 (24)
Supp.	2 (10.5)	4 (15)	1 (4)	4 (18)	4 (10)	3 (8)	9 (11)	2 (8)	0
Fail	5 (26)	4 (15)	0	3 (135)	5 (12)	2 (5)	18 (21)	1 (4)	5 (20)
D.N.W.	4 (21)	1 (4)	1 (4)	1 (4.5)	3 (7)	4 (10)	7 (8)	1 (4)	0
TOTAL	19	27	24	22	41	39	84	25	25

TABLE 29 (cont.)

GRADE	COM 151	COM 190	COM 261	COM 281	ECON 200	FR 110	FR 210	FR 220
I	3 (8)	3 (8)	0	2 (10)	3 (6)	0	3 (8)	1 (8)
II	18 (50)	2 (5)	5 (22)	75 (35)	11 (21)	3 (7)	7 (19)	4 (33)
Pass	8 (22)	25 (66)	16 (70)	10 (50)	20 (38)	7 (39)	21 (57)	6 (50)
Supp.	2 (6)	4 (10)	1 (4)	1 (5)	10 (18)	4 (22)	5 (135)	1 (8)
Fail	4 (11)	3 (8)	1 (4)	0	4 (8)	1 (6)	1 (2.5)	0
D.N.W.	1 (3)	1 (3)	0	0	5 (10)	3 (7)	0	0
Total	36	38	23	20	53	18	37	12

TABLE 29 (cont.)

GRADE	PHY 200	PHY 219	TOTAL	PERCENTAGE
I	0	0	50	5
II	3 (21)	4 (28)	241	24
Pass	7 (49)	9 (63)	471	46.7
Supp.	1 (7)	0	115	11.3
Fail	1 (7)	0	76	7.5
D.N.W.	2 (14)	1 (7)	55	5.5
TOTAL	14	14	1008	100.0

figure, calculated from 358 cases, was high and significant at the .01 level of confidence, (two tailed test).

The correlation coefficient found to exist between age and U.B.C. average was +.2133. This figure, although significant with the large number of cases, was considered to be relatively unimportant as obviously this represents only 4% of the variance in the criterion which is attributable to age.* The remaining variable, number of courses taken at V.C.C., proved to be insignificantly correlated with the criterion variable.

Other information reported by the analysis included the means and standard deviations of each variable which were as follows:

Variable	Mean	Standard Deviation
U.B.C. average	59.63	10.32
age	1.94	.83
number of courses	11.19	4.78
V.C.C. G.P.A.	2.44	.47

A further representation of the prediction analysis of college G.P.A. upon U.B.C. numerical average was attempted in the form of a single entry expectancy table. This table shows the percentage probability of obtaining the stated university average in terms of college G.P.A.

This information is represented in Table 30.

---

*For the purposes of the study, four age groups were defined, (1) 18-21, (2) 22-25, (3) 26-44, (4) 45 and over.

TABLE 30

Probability of Earning an U.B.C. Average of at Least*

V.C.C. G.P.A.	30-39	40-49	50-59	60-69	70-79	80-89
3.50-4.00	100	100	100	94.6	60.2	21.5
3.00-3.49	100	100	97.9	89	44	13.2
2.50-2.99	100	100	92.5	59.8	14.3	1.3
2.00-2.49	100	96	84	38	6	0
1.50-1.99	100	92.5	70.3	25.9	3.7	0
1.00-1.49	100	80	30	0	0	0

*All figures are expressed as a percentage.

Comparison of course grade distribution with regular U.B.C. students

A further comparison of percentage grade distribution in certain courses with "regular" university students was made. Again, it was arbitrarily decided to select courses as a basis of comparison where the enrolment of transfer students reached a minimum of thirty.

On this basis, twelve courses were selected from a variety of departments. The comparison shows that the V.C.C. transfer students did not perform as well as the "regular" students, particularly in the higher grades (classes I and II). The failure rates varied somewhat but again appeared to favor the "regular" students.

This information is represented in Table 31.

Conclusions

In making any definite conclusions as a result of the study, it seems appropriate to add similar cautions to those expressed at the time of the previous report. The group of subjects represent only the second relatively large number of students to transfer from Vancouver City College to the University of British Columbia. Although a much clearer picture is beginning to develop, the conclusions must be considered as still somewhat tentative. It will be interesting to explore further ratification of these trends with future transfer groups.

With this restriction in mind, the following conclusions can be drawn:

1. Again, G.P.A. obtained at Vancouver City College proved to be a fairly good indicator of future performance at U.B.C. The

TABLE 31

A comparison of percentage grade distribution in certain selected courses obtained by V.C.C. transfer students and "regular" U.B.C. students

COURSE	Class I		Class II		Pass		Fail		D.N.W.		Misc.	
	UBC	VCC	UBC	VCC	UBC	VCC	UBC	VCC	UBC	VCC	UBC	VCC
Eng 200	7	2	41	20	21	52	19	22	8	4	3	0
Psyc 100	14	9	34	30	37	44	9	18	4	0	2	0
Psyc 206	11	3	47	29	35	58	4	9	3	0	0	0
Soc 200	9	7.5	37	32.5	43	42.5	3	10	7	7.5	1	0
Hist 100	2	3	23	15	54	57	13	18	6	6	2	0
Com 151	12	8	54	50	22	22	7	6	3	1	2	0
Com 190	11	8	22	5	57	66	7	18	2	3	0	0
Ec 200	15	6	37	21	30	38	10	26	6	10	2	0
Fr 210	9	8	29	19	39	57	10	16	12	0	2	0
Math 201	10	5	38	27	34	39	12	22	5	7	2	0
Math 202	12	5	22	30	32	40	19	13	11	10	2	0
Math 203	10	2	27	18	43	39	14	32	4	8	1	0

danger of setting any strictly arbitrary minimum G.P.A. as a requirement for transfer status, however, is discussed elsewhere in this study.

2. While approximately forty percent of transfer students successfully completed their year at U.B.C., no further information was available as to how many of the remainder passed supplementals or corrected their status at summer school. Quite probably, this percentage of passes would be increased if further investigation was carried out.

3. Examination of transfer student performance in various courses compared to "regular" U.B.C. students seemed to indicate that transfer students were not as successful as their "regular" counterparts. However, the percentage of transfer students passing the course, in most cases, was comparable. It was apparent that the "regular" students gained somewhat more of their share of first and second class grades as compared to transfer students.

4. The single entry expectancy table indicated clearly that the higher the G.P.A. obtained at City College, the greater the probability of earning a higher academic average at the University. This conclusion was further supported by the coefficient of correlation obtained between the G.P.A. and the university average.

5. It seems apparent that, in future reports, probability of U.B.C. success could better be reported on an individual faculty basis. The prognosis for success in the various faculties appeared to vary greatly between faculties.

6. The fact that more than forty percent of the transfer group was able to satisfy the requirements for their year at the university is indicative of the value of the function which the College serves. The forty percent figure compared favorably with the thirty-four percent of the previous year. Again it might be interesting to speculate upon the chances of these people entering the university had the college not been in existence.

7. By the same token, the percentage of transfer students failing the year remained around fifteen percent. This figure might be interpreted as being somewhat encouraging.

8. Finally the value of this type of research seems significant enough to encourage its repetition in succeeding years. It is the intention of the authors to continue these studies.

FINAL COMMENTS

The community college is extending opportunity in higher education to a large number of students who would not likely be able to undertake a degree program. The college is particularly useful to those students who have for some time been away from formal education, to those whose secondary school achievement was marginal, to those who wish to re-evaluate their academic possibilities without enduring the initial impact of the four year institution, to those mature students for whom the whole range of higher education appears as a formidable obstacle and to foreign students who may not be able to directly qualify for admission to a university. To these, and possibly others, the community college offers the much needed opportunity to attempt higher education.

It would appear that the majority of transfer students with at least a 2.0 grade point average could probably achieve his goal at a university. However, it would seem that some students are now transferring to faculties whose level of achievement they are unable to meet.

Higher requirements for transfer to certain faculties seems inevitable. At the same time G.P.A.'s should not be the sole criteria for admission from a community college to a further institution of higher learning. Evidence would indicate that certain students with below what is normally considered an acceptable G.P.A. do succeed in their first year at a university.

No single conclusion could be drawn about the transfer student performance due to probable differences among the faculties entered.

Undoubtedly, the probability of success subsequent to the community college depends as much on the program selected as on the ability demonstrated while at college.

Some concern should be shown for the attrition rate after transfer. Firm conclusions on this point require further study and a larger sampling of students than was available for this report.

With the increased numbers of transfer students, the growing number of course choices, and the growing pressure from the community for involvement in higher education, the present system for articulation would seem inadequate. Interdependence among the college and university faculties and administrators will surely be increased in the future. This interdependence, however, need not cause the community college to become a "satelite university".

The achievement of college transfer students at the four year institution would indicate, at least from results as outlined in this report, that these students generally speaking will compare favourably with the regular University student.